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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/807,126	04/06/2001	Rainer Eckert	P01-0073	4270	
29177	7590 04/11/2005		EXAM	EXAMINER	
BELL, BOYD & LLOYD, LLC			СНО,	CHO, UN C	
P. O. BOX 1135 CHICAGO, IL 60690-1135			ART UNIT	PAPER NUMBER	
			2687		
			DATE MAILED: 04/11/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>						
	Application No.	Applicant(s)				
	09/807,126	ECKERT, RAINER				
Office Action Summary	Examiner	Art Unit				
	Un C Cho	2687				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 O						
,	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) 1-10 is/are withdrawn 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 11-19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the certified copies of the prior application from the International Bureau 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate atent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (P (O-152)				

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 11 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Portin (US 5,794,159).

Regarding claim 11, Portin discloses multi-mode radiotelephone having a first transmission antenna (Portin, Fig. 3, 12a or 12b) for transmitting signals within the transmission frequency band of a first frequency range (Portin, Col. 2, lines 18 – 21), a second transmission antenna (Portin, Fig. 3, 12a or 12b) for transmitting signals within the transmission frequency band of a second frequency range (Portin, Col. 2, lines 21 – 24), a first reception antenna (Portin, Fig. 3, 12a or 12b) for receiving signals within the receiving frequency band of the first frequency range (Portin, Col. 2, lines 13 – 15) and a second reception

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antenna (Portin, Fig. 3, 12a or 12b) for receiving signals within the receiving frequency band of the second frequency range (Portin, Col. 2, lines 15 – 18).

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Regarding claim 15, the claim is interpreted and rejected for the same reason as set forth in claim 11.

4. Claim 18 is rejected under 35 U.S.C. 102(e) as being anticipated by Gillig et al. (US 6,141,560).

Regarding claim 18, Gillig discloses an antenna array for operating a mobile station within different mobile radio systems to which a different frequency range is in each case allocated (dual mode mobile station operating within different systems) comprising a first transmission antenna (Fig. 2, 118) and a second transmission antenna (Fig. 2, 119) transmitting a plurality of frequency bands in said array; a first reception antenna (Fig. 2, 118) and a second reception antenna (Fig. 2, 119) receiving said plurality of frequency bands in said array, wherein said array operates without the use of antenna switches (microcomputer, Fig. 2, 130, controls first transmitting, second transmitting, first receiving and second receiving antennas for communication with its respective systems, Gillig, Col. 3, lines 42 – 66).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 12, 13, 14, 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Portin in view of Miller et al. (US 6,396,365).

Regarding claim 12, Portin discloses the limitations of claim 11. However, Portin as applied to claim 11 above does not specifically disclose that the first and the second transmission antenna are identical. In an analogous art, Miller discloses a pair of identical antennas (Miller, Fig. 1, 101 and 102) for transmission (Miller, Col. 5, lines 1 – 8 and 65 – 66). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Miller to the system of Portin in order to provide reception and transmission of signals in different frequency ranges and advantageously allow receivers to be switched between the different frequencies without any substantial loss or degradation of signal.

Regarding claim 13, Portin in view of Miller as applied to claim 12 above discloses a pair of identical antennas (Miller, Fig. 1, 101 and 102) for reception (Miller, Col. 5, lines 1 - 8 and 65 - 66).

Regarding claim 14, Portin in view of Miller discloses multi-mode radiotelephone having a first transmission antenna (Portin, Fig. 3, 12a or 12b) for transmitting signals within the transmission frequency band of a first frequency range (Portin, Col. 2, lines 18 – 21), a second transmission antenna (Portin, Fig. 3, 12a or 12b) for transmitting signals within the transmission frequency band of

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a second frequency range (Portin, Col. 2, lines 21 – 24), a first reception antenna (Portin, Fig. 3, 12a or 12b) for receiving signals within the receiving frequency band of the first frequency range (Portin, Col. 2, lines 13 – 15) and a second reception antenna (Portin, Fig. 3, 12a or 12b) for receiving signals within the receiving frequency band of the second frequency range (Portin, Col. 2, lines 15 – 18), first and the second transmission antenna being substantially identical and first and second reception antenna being substantially identical (Miller, Col. 5, lines 1 – 8 and 65 – 66).

Regarding claim 16, the claim is interpreted and rejected for the same reason as set forth in claim 12.

Regarding claim 17, the clam is interpreted and rejected for the same reason as set forth in claim 13.

7. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gillig in view of Portin.

Regarding claim 19, Gillig as applied to claim 18 above does not specifically disclose that the plurality of frequency bands comprise either of a DCS frequency band, a GSM frequency band, a CDMA frequency band and a TD/CDMA frequency band. In an analogous art, Portin discloses that the plurality of frequency bands comprise of digital CDMA, digital TDMA, hybrid TDMA/CDMA and GSM (Portin, Col. 3, lines 9 – 16 and lines 51 – 59). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made

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to provide the technique of Portin to the system of Gillig in order to provide a dual band radio telephone that employs integrated circuit packages for transmit and receive functions.

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Response to Arguments

8. Applicant's arguments filed 10/18/2004 regarding claims 11 – 17 have been fully considered but they are not persuasive.

Regarding applicants arguments to claims 11, 14 and 15, that Portin and Miller fails to disclose four different antennas wherein two of the antennas are associated with transmit function and two of the antennas are associated with receive functions.

Examiner disagrees with the argument presented by the applicant regarding claims 11, 14 and 15 and the reasoning is as follows.

Claims 11, 14 and 15 recite "... a first transmission antenna... a second transmission antenna ... a first reception antenna ... a second reception antenna

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9. Applicant's arguments with respect to claims 18 – 19 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Un C Cho whose telephone number is (571)272-7919. The examiner can normally be reached on M ~ F 8:00AM to 4:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571)272-7922. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SONNYTRINH
PRIMARY EXAMINE

Un C Cho Examiner Art Unit 2687

4/6/05 VC